

IN THE CLAIMS

The current status of the claims is as follows.

1. (Original) A resource allocator that is operable to allocate a plurality of resources among a plurality of tasks within a process system, said plurality of resources comprising human resources and process resources, and said process system comprising a plurality of application processes, said resource allocator comprising:

a memory that stores a model of said process system, said model representing mathematically said plurality of application processes, said plurality of resources, and said plurality of tasks, and defining relationships among related ones thereof;

a status monitoring controller that monitors measurable characteristics associated with ones of said process system, said plurality of application processes, said plurality of resources, and said plurality of tasks; and

a resource allocation controller that modifies ones of said mathematical representations and that allocates ones of said plurality of resources among ones of said plurality of tasks within said process system in response to ones of said monitored measurable characteristics.

2. (Original) The resource allocator as set forth in Claim 1 further comprising a graphical user interface that is operable to enable supervisory interaction.

3. (Original) The resource allocator as set forth in Claim 2 wherein said graphical user interface is operable to facilitate at least one of customer management, network management, transaction management, resource management, communication management.

4. (Original) The resource allocator as set forth in Claim 1 wherein said memory further comprises a data repository that comprises at least one of a customer database, a network database, a transaction database, a resource database, a communication database, a knowledge database and a control database.

5. (Original) The resource allocator as set forth in Claim 4 wherein said data repository comprises at least said knowledge database, said resource allocator is further operable to modify said knowledge database in response to ones of said monitored measurable characteristics thereby enabling said resource allocator to be self-learning.

6. (Original) The resource allocator as set forth in Claim 1 wherein said resource allocation controller is operable to reselect one of said allocated ones of said plurality of resources among ones of said plurality of tasks within said process system in response to modified ones of said monitored measurable characteristics.

7. (Original) A method of operating a resource allocator to allocate a plurality of resources among a plurality of tasks within a process system, said plurality of resources comprising human resources and process resources, and said process system comprising a plurality of application processes, said method of operating said resource allocator comprising the steps of:

storing a model of said process system in memory that represents mathematically said plurality of application processes, said plurality of resources, and said plurality of tasks, and defining relationships among related ones thereof;

monitoring measurable characteristics associated with ones of said process system, said plurality of application processes, said plurality of resources, and said plurality of tasks in said memory; and

modifying ones of said mathematical representations and allocating ones of said plurality of resources among ones of said plurality of tasks within said process system in response to ones of said monitored measurable characteristics.

8. (Original) The method of operating the resource allocator as set forth in Claim 7 further comprising the step of providing a graphical user interface operable to enable supervisory interaction, to facilitate at least one of customer management, network management, transaction management, resource management, communication management.

9. (Original) The method of operating the resource allocator as set forth in Claim 7 further comprising the step of maintaining at least one of a customer database, a network database, a transaction database, a resource database, a communication database, a knowledge database and a control database in memory.

10. (Original) The method of operating the resource allocator resource allocator as set forth in Claim 9 wherein said knowledge database is maintained in memory and said method further comprises the step of modifying said knowledge database in response to ones of said monitored measurable characteristics thereby enabling said resource allocator to be self-learning.

11. (Original) The method of operating the resource allocator as set forth in Claim 7 further comprising the steps of reselecting one of said allocated ones of said plurality of resources among ones of said plurality of tasks within said process system in response to modified ones of said monitored measurable characteristics.

12. (Original) The method of operating the resource allocator as set forth in Claim 11 wherein said reselecting step further comprises the step of accessing at least a knowledge database.

13. (Original) A process system comprising:

- a plurality of subsystems;
- a plurality of tasks;
- a plurality of resources comprising human resources and process resources; and
- a resource allocator that is operable to allocate said plurality of resources among said plurality of tasks, said resource allocator comprising:
 - a memory that stores a model of said process system, said model representing mathematically said plurality of application processes, said plurality of resources, and said plurality of tasks, and defining relationships among related ones thereof;
 - a status monitoring controller that monitors measurable characteristics associated with ones of said process system, said plurality of application processes, said plurality of resources, and said plurality of tasks; and
 - a resource allocation controller that modifies ones of said mathematical representations and that allocates ones of said plurality of resources among ones of said plurality of tasks within said process system in response to ones of said monitored measurable characteristics.

14. (Original) The process system as set forth in Claim 13 wherein said resource allocator further comprises a graphical user interface that is operable to enable supervisory interaction.

15. (Original) The process system as set forth in Claim 14 wherein said graphical user interface is operable to facilitate at least one of customer management, network management, transaction management, resource management and communication management.

16. (Original) The process system as set forth in Claim 13 wherein said memory further comprises a data repository that comprises at least one of a customer database, a network database, a transaction database, a resource database, a communication database, a knowledge database and a control database.

17. (Original) The process system as set forth in Claim 16 wherein said data repository comprises at least said knowledge database, said resource allocator is further operable to modify said knowledge database in response to ones of said monitored measurable characteristics thereby enabling said resource allocator to be self-learning.

18. (Original) The process system as set forth in Claim 13 wherein said resource allocator is operable to reselect one of said allocated ones of said plurality of resources among ones of said plurality of tasks within said process system in response to modified ones of said monitored measurable characteristics.

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19. (Original) The process system as set forth in Claim 13 wherein said process system controls one of a manufacturing plant, a refinery, a hotel, a restaurant, a traffic control system, a transportation control system and an emergency services system.

20. (Original) The process system as set forth in Claim 13 wherein said resource allocator is an information management system.